

**AMENDMENT**

**IN THE SPECIFICATION:**

Kindly amend the specification, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

Please delete the paragraph on page 59, line 13, and replace it with the following paragraph:

Figure 4: PFAM search results for AAC74854.1 (ADS1) (Residues 233-423 of SEQ ID NO: 2).

Please delete the paragraph on page 59, line 14, and replace it with the following paragraph:

Figure 5: NCBI protein report for AAC74854.1 (ADS1) (Residues 1-240 of SEQ ID NO: 2).

Please delete the paragraph on page 59, lines 21-22, and replace it with the following paragraph:

Figure 7: ALEye sequence alignment of BAA15585.1 (SEQ ID NO: 2) (AAC74854.1 (ADS1)) and 1LFA:A (SEQ ID NO: 7).

Please delete the paragraph on page 60, line 13, and replace it with the following paragraph:

Figure 12: PFAM search results for AAC76768.1 (ADS2) (Residues 204-408 of SEQ ID NO: 4).

**Please delete the paragraph on page 60, line 14, and replace it with the following paragraph:**

**Figure 13: NCBI protein report for AAC76768.1(ADS2) (Residues 1-240 of SEQ ID NO: 4).**

**Please delete the paragraph on page 60, line 21, and replace it with the following paragraph:**

**Figure 15: AIEye sequence alignment of P03818 (SEQ ID NO: 4) (AAC76768.1 (ADS2)) and 1AOX:A (SEQ ID NO: 8).**

**Please delete the paragraph on page 61, line 10, and replace it with the following paragraph:**

**Figure 20: PFAM search results for P10155 (ADS5) (Residues 1-194 of SEQ ID NO: 6, and residues 195-394 of SEQ ID NO: 10 aligned with residues 195-244 and 295-344 of SEQ ID NO: 6).**

**Please delete the paragraph on page 61, line 11, and replace it with the following paragraph:**

**Figure 21: NCBI protein report for P10155 (ADS5) (SEQ ID NO: 6).**

**Please delete the paragraph on page 61, line 18, and replace it with the following paragraph:**

**Figure 23: AIEye sequence alignment of P10155 (ADS5) (SEQ ID NO: 6) and 1JLM (SEQ ID NO: 9).**

**Please delete the paragraph on page 61, lines 25-27, and replace it with the following paragraph:**

**Figure 25: AIEye sequence alignment of P10155 (SEQ ID NO: 6), *Homo Sapiens* Ro60 (ADS5), and the *Mus musculus* (AAF19049.1) (SEQ ID NO: 10), *Xenopus Laevis* (AAC38001.1) (SEQ ID NO: 11) and *Caenorhabditis elegans* (CAA98241.1) (SEQ ID NO: 12) Ro60 homologs.**